FX87 - 87s

DWDM Tunable Laser Source (TLS)

The FX87 DWDM TLS can be tuned to any G.694.1 channel on the 50 GHz frequency grid over the C-band spectrum. Test applications include verifying end-end wavelength routing and troubleshooting passive Multiplexer and Demultiplexer network elements. Optimized for Fiber Deep, Metro and Core networks employing DWDM technology. Automate multi-wave DWDM IL loss measurement and verify cable routes using our new Sweep Loss Test Kit, comprised of FX87s and FX82s meters.

KEY FEATURES

- Low Cost, Hand Held Tunable DWDM Laser Source:
- FX 87 Traditional Tunable OLS
- FX87s Sweep Generator
- Fast Boot-up time and laser stabilization (< 5 seconds)
- Full C-Band tuning (> 80 channels @ 50 GHz spacing)
- Monochrome LCM, 128 x 64 pixels, LED backlight display
- Li-Polymer rechargeable battery, > 8 hours operation
- Rugged, polycarbonate case with impact resistant rubber boot, 1 meter drop tested
- Splash and dust resistant keypad
- Optional Broadband Optical Power Meter (OPM)
- Non-volatile storage for up to 1920 single wavelength result
- USB (wired) or optional Bluetooth (wireless) interface for test result transfer
- PC software for OPM data transfer and report generation
- Upload of stored results to VeEX R-Server workforce management system or Fiberizer® Cloud via LT-Sync PC software

KEY SPECIFICATIONS

Tunable Source

- Wavelength Range: 1527.60 to 1566.31 nm
- Frequency Range: 191.40 to 196.25 THz
- Up to 98 channels
- Channel spacing: 50 GHz (ITU G.694.1 grid)
- Frequency accuracy: ± 2.5 GHz
- Linewidth: 10 MHz
- OSNR: 55 dB typical, SMSR: 35 dB minimum
- Built-in wavelength locker (stable to within ±2.5 GHz)
- Output Power: + 5 dBm typical (FX87s power is adjustable: +5, 0, or -5dBm)
- Laser Safety: Class 1M per IEC 60825-1-2014

Optical Power Meter (Optional)

- Accuracy: ± 0.2 dB (5%)
- WaveID support (using compatible VeEX source)
- Display resolution: 0.01 dB
- Measurement range:
- Standard (PM1) version: -65 to +10 dBm
- High (PM2) version: -50 to +25 dBm; (FX87s OPM and FX82s requires PM2 meter)